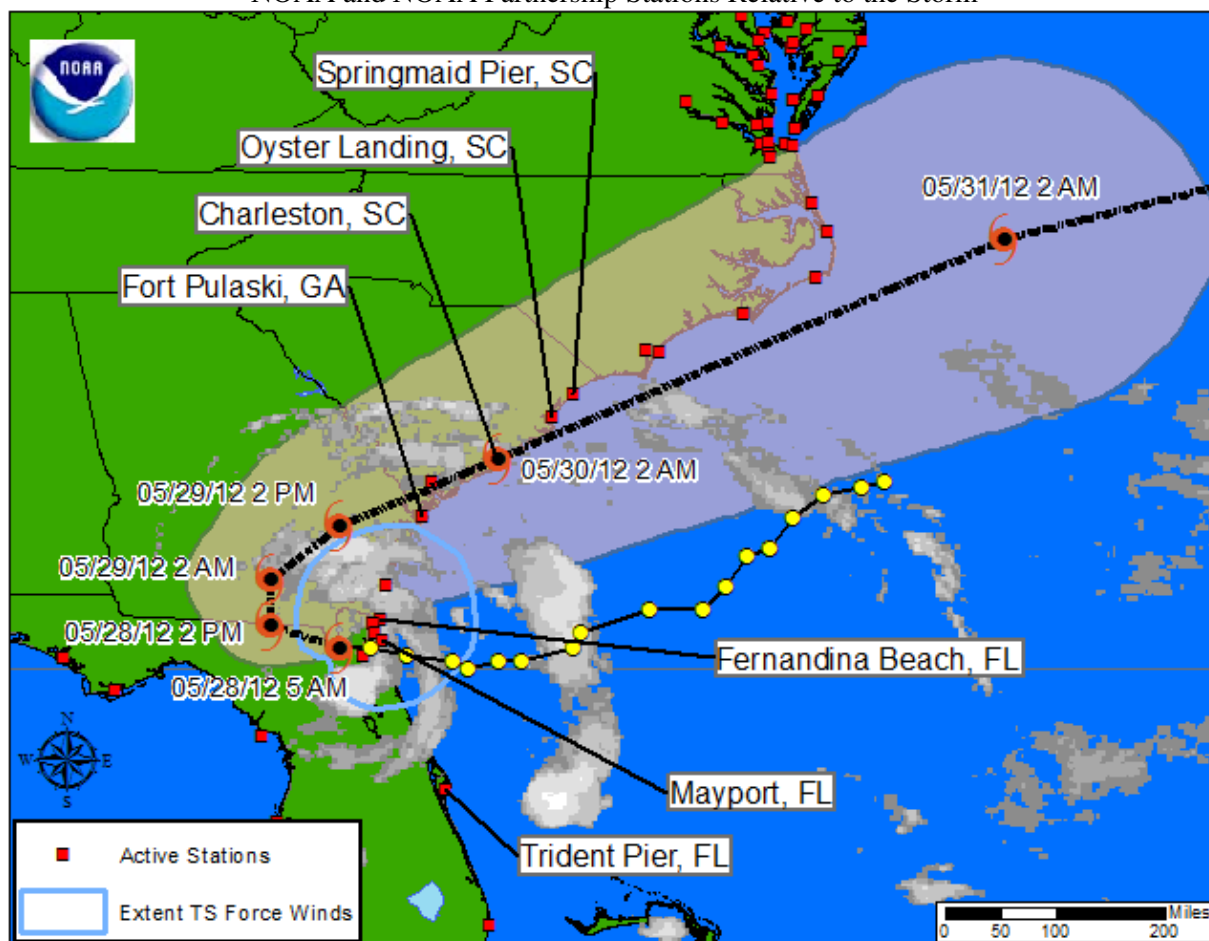


Tropical Storm BERYL QuickLook
Posted: 06:00 EDT 05/28/2012

NOAA and NOAA Partnership Stations Relative to the Storm



Storm Analysis

As of 05/28/2012 06:00 EDT, water levels from South Carolina to central Florida are elevated. Water levels from Trident Pier, FL north to Fort Pulaski, GA are measuring between 0.8 and 2.5 feet above tidal predictions. Water levels along the South Carolina coast from Charleston to Springmaid Pier range between 0.6 and 1.2 feet above tidal predictions. Winds are between 12 and 22 knots with gusts up to 40 kts. Barometric pressure continues to gradually fall at many locations but has started to rise at Mayport, FL and Fernandina Beach, FL.

Water Level and Meteorological plots available below are updated automatically. Water level predictions relative to Mean Lower Low Water are:

Mayport (Bar Pilots Dock), FL: Next predicted high tides are 4.4 ft (1.34 m) at 05/28/2012 14:43 EDT and 4.5 ft (1.39 m) at 05/29/2012 02:58 EDT.

Tropical Storm BERYL QuickLook, POSTED 06:00 EDT 05/28/2012

Fernandina Beach, FL: Next predicted high tides are 5.7 ft (1.74 m) at 05/28/2012 14:58 EDT and 5.9 ft (1.82 m) at 05/29/2012 03:14 EDT.

Fort Pulaski, GA: Next predicted high tides are 6.6 ft (2.00 m) at 05/28/2012 14:20 EDT and 7.0 ft (2.15 m) at 05/29/2012 02:35 EDT.

Charleston, SC: Next predicted high tides are 4.9 ft (1.51 m) at 05/28/2012 14:05 EDT and 5.3 ft (1.64 m) at 05/29/2012 02:12 EDT.

Oyster Landing (N. Inlet Estuary), SC: Next predicted high tides are 4.4 ft (1.35 m) at 05/28/2012 14:54 EDT and 4.6 ft (1.43 m) at 05/29/2012 03:09 EDT.

Springmaid Pier, SC: Next predicted high tides are 4.8 ft (1.45 m) at 05/28/2012 13:49 EDT and 5.0 ft (1.54 m) at 05/29/2012 01:54 EDT.

Trident Pier, FL: Next predicted high tides are 3.1 ft (0.95 m) at 05/28/2012 14:02 EDT and 3.3 ft (1.03 m) at 05/29/2012 02:14 EDT.

For additional data, please see the [Center for Operational Oceanographic Products & Services](#) website. For information on Highest Astronomical Tide (HAT), NAVD88 and other datums, please see [Tidal Datums](#). For more information or archived products and reports, please see the [Storm QuickLook Homepage](#).

Analyst:DW

SELECT NATIONAL HURRICANE CENTER ADVISORY INFORMATION:

TROPICAL STORM BERYL ADVISORY NUMBER 10
NWS NATIONAL HURRICANE CENTER MIAMI FL AL022012
500 AM EDT MON MAY 28 2012

...BERYL GRADUALLY WEAKENING AS IT MOVES INLAND...WILL CONTINUE TO PRODUCE HEAVY RAINS EVEN AS THE WINDS DECREASE...

WATCHES AND WARNINGS

CHANGES WITH THIS ADVISORY...

THE TROPICAL STORM WARNING HAS BEEN DISCONTINUED NORTH OF THE SAVANNAH RIVER.

SUMMARY OF WATCHES AND WARNINGS IN EFFECT...

A TROPICAL STORM WARNING IS IN EFFECT FOR...

* FLAGLER BEACH FLORIDA TO THE SAVANNAH RIVER GEORGIA

FOR STORM INFORMATION SPECIFIC TO YOUR AREA...INCLUDING POSSIBLE INLAND WATCHES AND WARNINGS...PLEASE MONITOR PRODUCTS ISSUED BY YOUR LOCAL NATIONAL WEATHER SERVICE FORECAST OFFICE.

DISCUSSION AND 48-HOUR OUTLOOK

AT 500 AM EDT...0900 UTC...THE CENTER OF TROPICAL STORM BERYL WAS LOCATED BY NATIONAL WEATHER SERVICE DOPPLER RADAR AND SURFACE OBSERVATIONS NEAR LATITUDE 30.3 NORTH...LONGITUDE 82.0 WEST. BERYL IS MOVING TOWARD THE WEST NEAR 8 MPH. A TURN TOWARD THE WEST-NORTHWEST AND THEN TOWARD THE NORTH WITH A DECREASE IN FORWARD SPEED IS EXPECTED TODAY...FOLLOWED BY A TURN TOWARD THE NORTHEAST ON TUESDAY. ON THE FORECAST TRACK...THE CENTER OF BERYL WILL CONTINUE MOVING INLAND OVER NORTHEAST FLORIDA TODAY AND MOVE INTO SOUTHEAST GEORGIA TONIGHT AND TUESDAY.

MAXIMUM SUSTAINED WINDS HAVE DECREASED TO NEAR 50 MPH WITH HIGHER GUSTS. GRADUAL WEAKENING IS EXPECTED TO CONTINUE TODAY...AND BERYL IS FORECAST TO BECOME A TROPICAL DEPRESSION TONIGHT.

TROPICAL STORM FORCE WINDS EXTEND OUTWARD UP TO 140 MILES MAINLY TO THE NORTH AND EAST OF THE CENTER. THE JACKSONVILLE NAVAL AIR STATION RECENTLY REPORTED A SUSTAINED WIND OF 33 MPH AND A WIND GUST OF 41 MPH. A WIND GUST OF 44 MPH WAS RECENTLY REPORTED AT NAVAL STATION MAYPORT.

THE ESTIMATED MINIMUM CENTRAL PRESSURE BASED ON SURFACE OBSERVATIONS IS 997 MB...29.44 INCHES.

HAZARDS AFFECTING LAND

WIND...TROPICAL STORM CONDITIONS WILL CONTINUE ALONG THE COAST WITHIN THE WARNING AREA TODAY...AND WILL ALSO SPREAD INLAND NEAR THE CENTER OF BERYL. TROPICAL STORM FORCE WIND GUSTS ARE POSSIBLE ELSEWHERE OVER NORTHEASTERN FLORIDA AND SOUTHEASTERN GEORGIA TODAY...PARTICULARLY IN RAINBANDS.

STORM SURGE...THE COMBINATION OF A STORM SURGE AND THE TIDE WILL CAUSE NORMALLY DRY AREAS NEAR THE COAST TO BE FLOODED BY RISING WATERS. THE WATER COULD REACH THE FOLLOWING DEPTHS ABOVE GROUND IF THE PEAK SURGE OCCURS AT THE TIME OF HIGH TIDE...GEORGIA AND NORTHEASTERN FLORIDA...2 TO 4 FT

THE DEEPEST WATER WILL OCCUR ALONG THE IMMEDIATE COAST NEAR AND TO THE NORTH OF THE LANDFALL LOCATION...WHERE THE SURGE WILL BE ACCOMPANIED BY LARGE WAVES. SURGE-RELATED FLOODING DEPENDS ON THE RELATIVE TIMING OF THE SURGE AND THE TIDAL CYCLE...AND CAN VARY GREATLY OVER SHORT DISTANCES. FOR INFORMATION SPECIFIC TO YOUR AREA...PLEASE SEE PRODUCTS ISSUED BY YOUR LOCAL NATIONAL WEATHER SERVICE OFFICE.

SURF...DANGEROUS SURF CONDITIONS...INCLUDING RIP CURRENTS...ARE EXPECTED ALONG THE COAST FROM NORTHEASTERN FLORIDA TO NORTH CAROLINA OVER THE REMAINDER OF THE MEMORIAL DAY WEEKEND. PLEASE SEE STATEMENTS ISSUED BY YOUR LOCAL NATIONAL WEATHER SERVICE OFFICE FOR INFORMATION SPECIFIC TO YOUR AREA.

RAINFALL...BERYL IS EXPECTED TO PRODUCE TOTAL RAIN ACCUMULATIONS OF 4 TO 8

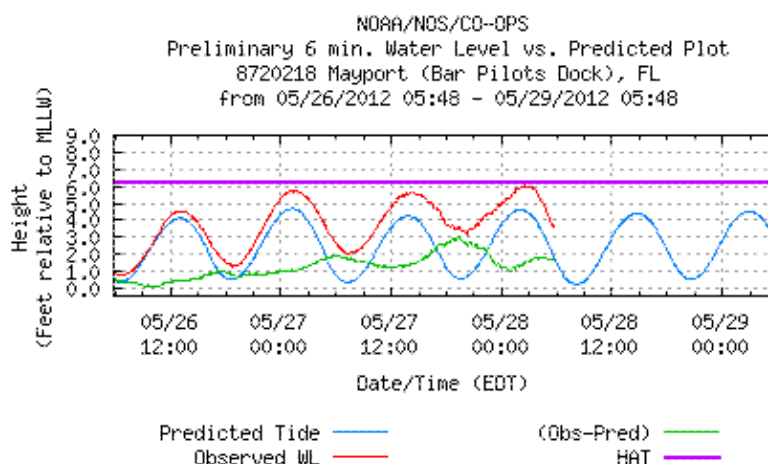
INCHES...WITH ISOLATED MAXIMUM AMOUNTS OF 12 INCHES...FROM NORTHERN FLORIDA THROUGH SOUTHEASTERN NORTH CAROLINA.

FORECASTER BRENNAN/ROBERTS

For the purpose of timely release, data contained within this QuickLook have undergone a "limited" NOS Quality Assurance/Control; however, the data have not yet undergone final verification. All data subject to NOS verification.

Jump to: [Mayport \(Bar Pilots Dock\) - Water Level](#), [Mayport \(Bar Pilots Dock\) - Winds](#), [Mayport \(Bar Pilots Dock\) - Barometric](#), [Mayport \(Bar Pilots Dock\) - Air/Water Temp](#), [Fernandina Beach - Water Level](#), [Fernandina Beach - Winds](#), [Fernandina Beach - Barometric](#), [Fort Pulaski - Water Level](#), [Fort Pulaski - Winds](#), [Fort Pulaski - Barometric](#), [Charleston - Water Level](#), [Charleston - Winds](#), [Charleston - Barometric](#), [Oyster Landing \(N. Inlet Estuary\) - Water Level](#), [Springmaid Pier - Water Level](#), [Springmaid Pier - Winds](#), [Springmaid Pier - Barometric](#), [Trident Pier - Water Level](#), [Trident Pier - Winds](#), [Trident Pier - Barometric](#),

Mayport (Bar Pilots Dock), FL - Return to List

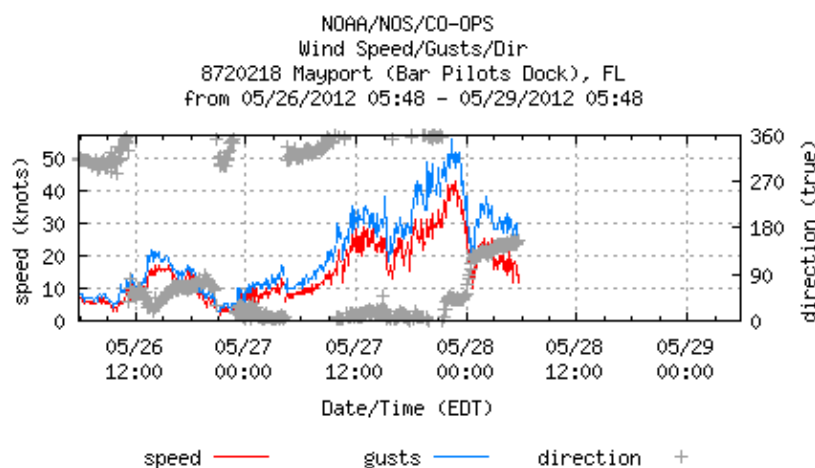


Last Observed Sample: 05/28/2012 05:42 (EDT)

Relative to MLLW: **Observed: 3.55 ft.** **Predicted: 1.82 ft.** **Residual: 1.73 ft.**

Historical Maximum Water Level: Sep 27 2004, 2.47 ft. above MHHW

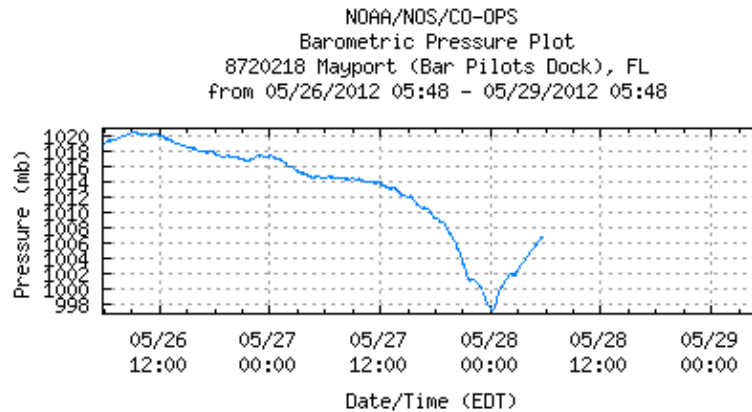
Mayport (Bar Pilots Dock), FL - Return to List



Last Observed Sample: 05/28/2012 05:42 (EDT)

Wind Speed: 14 knots **Gusts: 26 knots** **Direction: 156° T**

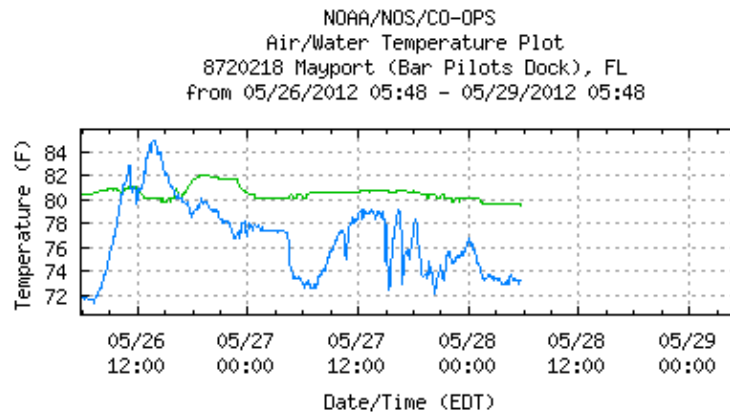
Mayport (Bar Pilots Dock), FL - Return to List



Last Observed Sample: 05/28/2012 05:42 (EDT)

Barometric Pressure: 1006.9 mb

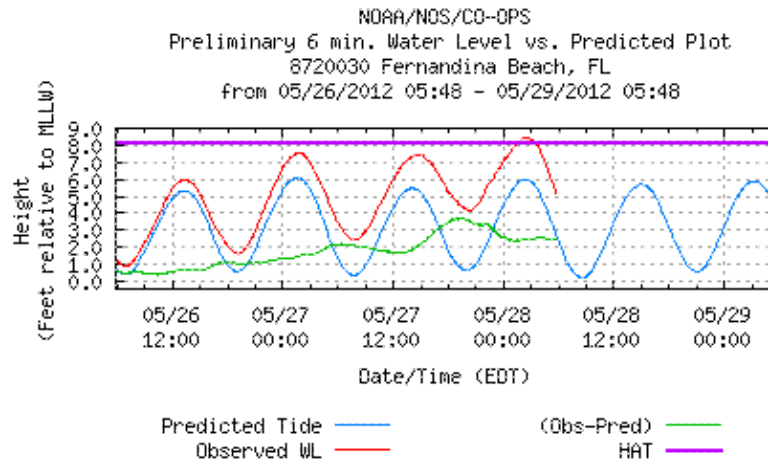
Mayport (Bar Pilots Dock), FL - Return to List



Last Observed Sample: 05/28/2012 05:42 (EDT)

Water Temperature: 79.5° F Air Temperature: 73.2° F

[Fernandina Beach, FL](#) - [Return to List](#)

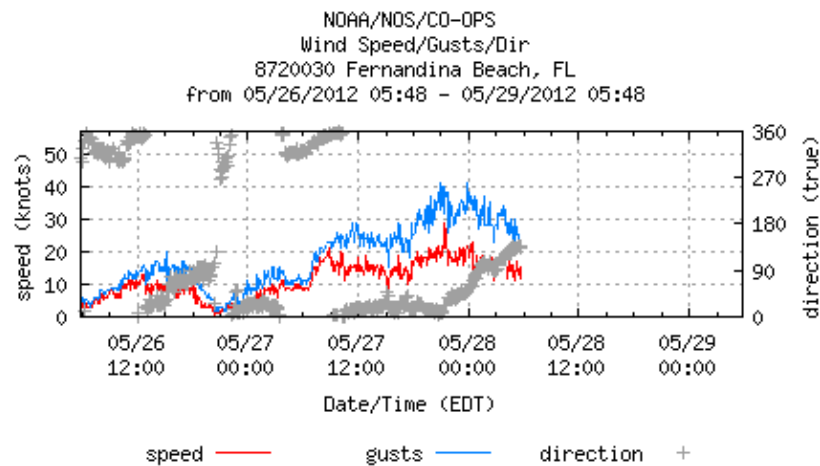


Last Observed Sample: 05/28/2012 05:42 (EDT)

Relative to MLLW: **Observed: 5.18 ft.** **Predicted: 2.73 ft.** **Residual: 2.45 ft.**

Historical Maximum Water Level: Oct 2 1898, 6.94 ft. above MHHW

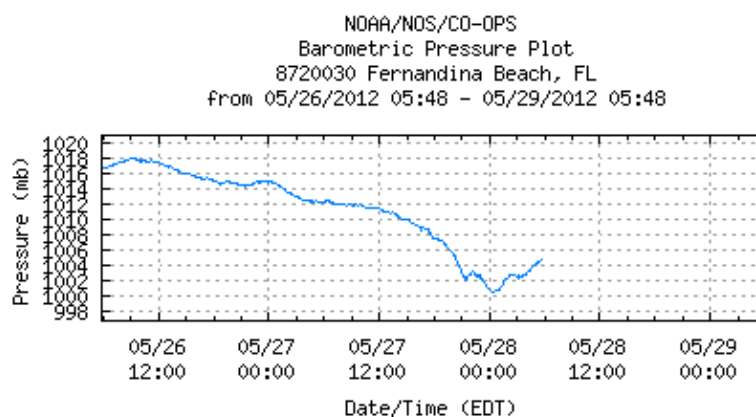
[Fernandina Beach, FL](#) - [Return to List](#)



Last Observed Sample: 05/28/2012 05:42 (EDT)

Wind Speed: 15 knots **Gusts: 23 knots** **Direction: 134° T**

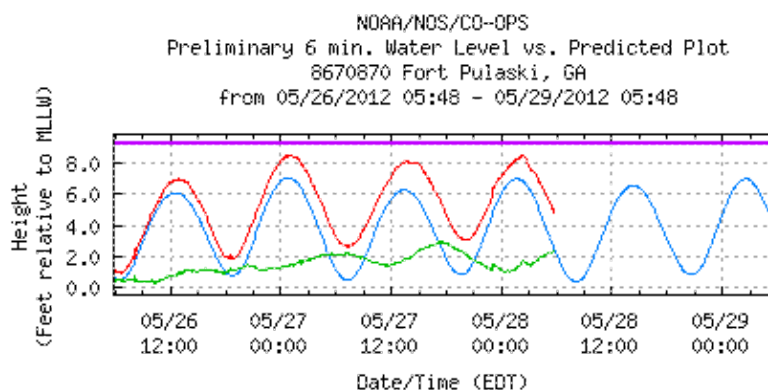
Fernandina Beach, FL - Return to List



Last Observed Sample: 05/28/2012 05:42 (EDT)

Barometric Pressure: 1004.9 mb

Fort Pulaski, GA - Return to List

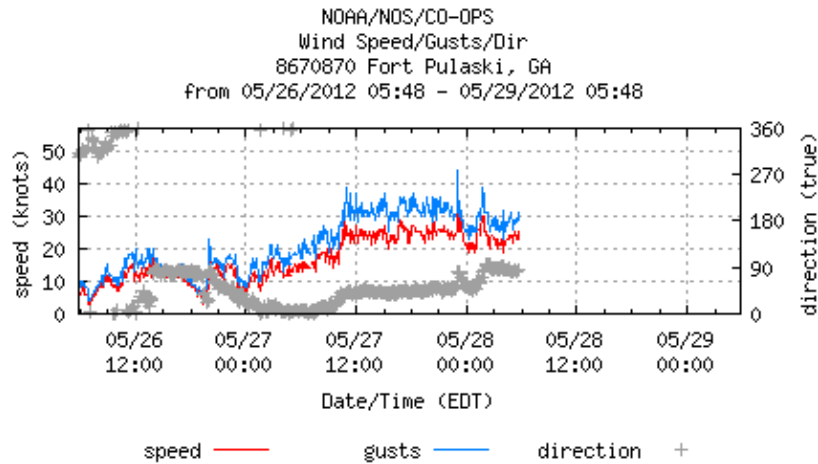


Last Observed Sample: 05/28/2012 05:42 (EDT)

Relative to MLLW: **Observed: 4.84 ft.** **Predicted: 2.50 ft.** **Residual: 2.34 ft.**

Historical Maximum Water Level: Oct 15 1947, 3.4 ft. above MHHW

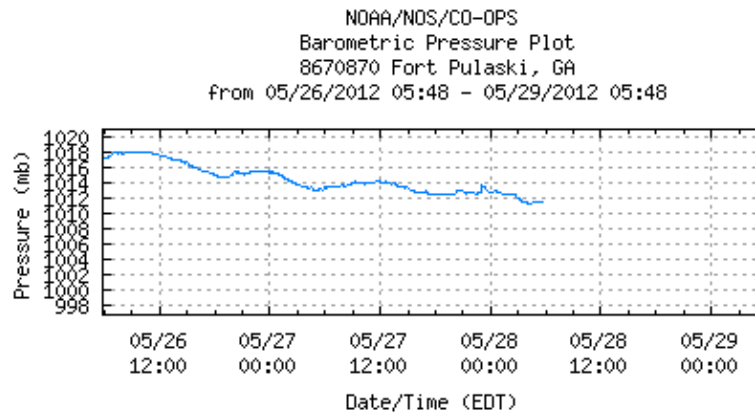
Fort Pulaski, GA - Return to List



Last Observed Sample: 05/28/2012 05:42 (EDT)

Wind Speed: 23 knots Gusts: 29 knots Direction: 84° T

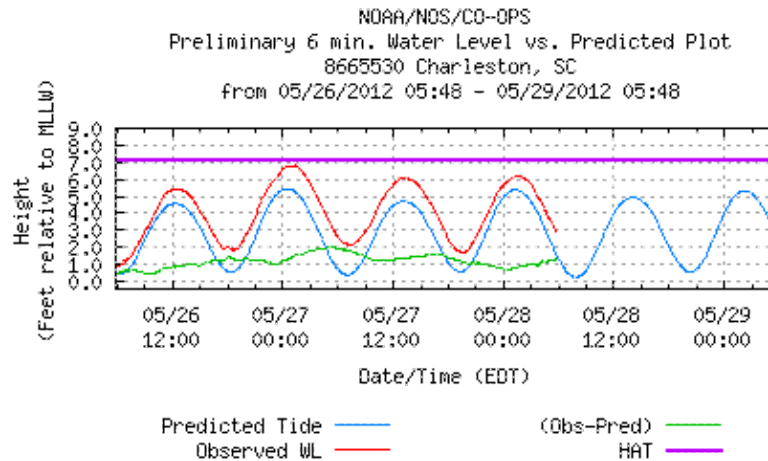
Fort Pulaski, GA - Return to List



Last Observed Sample: 05/28/2012 05:42 (EDT)

Barometric Pressure: 1011.5 mb

[Charleston, SC - Return to List](#)

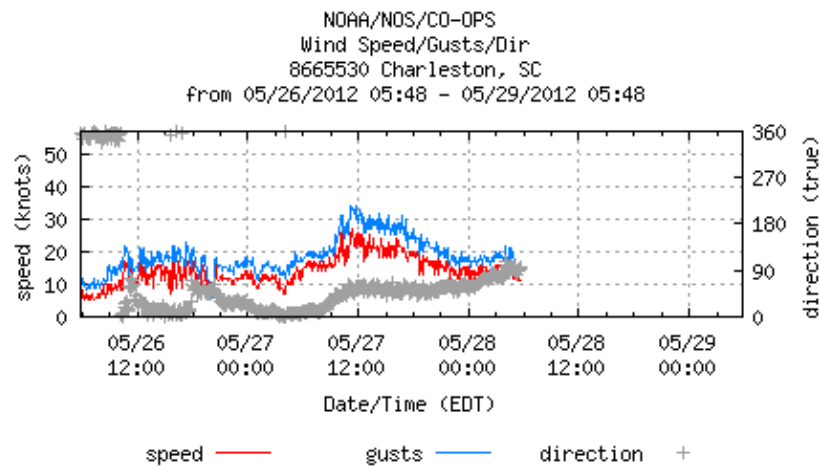


Last Observed Sample: 05/28/2012 05:42 (EDT)

Relative to MLLW: **Observed: 2.90 ft.** **Predicted: 1.60 ft.** **Residual: 1.30 ft.**

Historical Maximum Water Level: Sep 21 1989, 6.76 ft. above MHHW

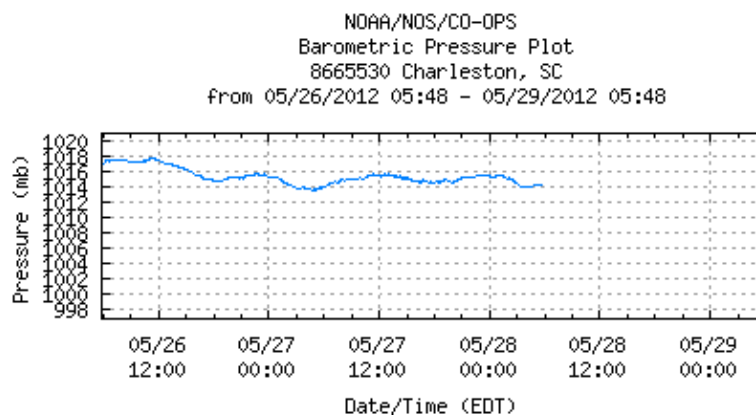
[Charleston, SC - Return to List](#)



Last Observed Sample: 05/28/2012 05:42 (EDT)

Wind Speed: 11 knots **Gusts: 15 knots** **Direction: 94° T**

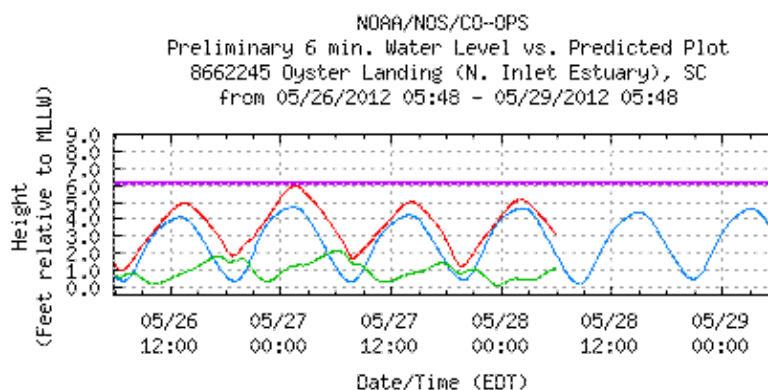
Charleston, SC - Return to List



Last Observed Sample: 05/28/2012 05:42 (EDT)

Barometric Pressure: 1014.3 mb

Oyster Landing (N. Inlet Estuary), SC - Return to List



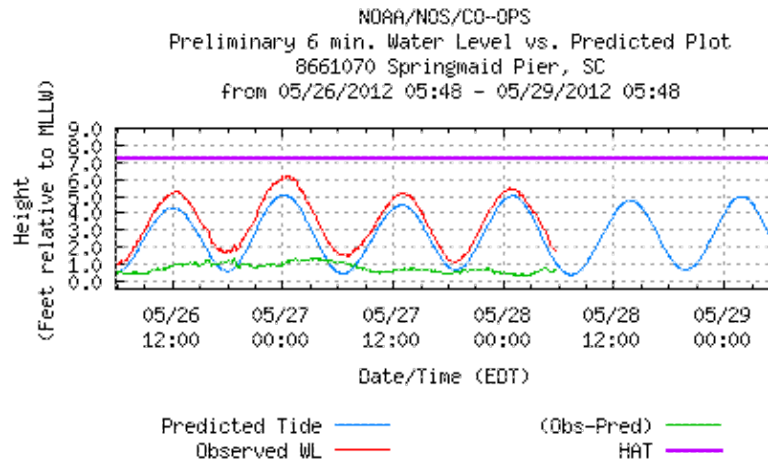
Predicted Tide — (Obs-Pred) —
Observed WL — HAT —

Last Observed Sample: 05/28/2012 05:48 (EDT)

Relative to MLLW: **Observed: 3.12 ft.** **Predicted: 2.04 ft.** **Residual: 1.08 ft.**

Historical Maximum Water Level: Aug 26 2011, 2.4 ft. above MHHW

Springmaid Pier, SC - Return to List

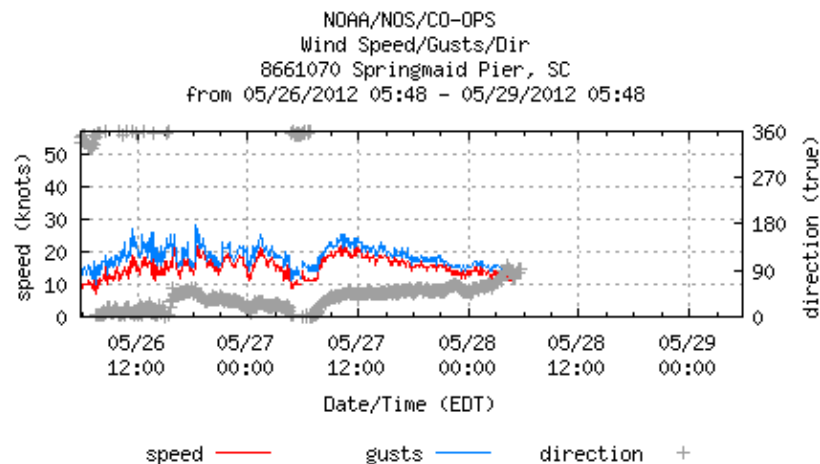


Last Observed Sample: 05/28/2012 05:42 (EDT)

Relative to MLLW: **Observed: 1.76 ft.** **Predicted: 1.05 ft.** **Residual: 0.71 ft.**

Historical Maximum Water Level: Jan 1 1987, 3.65 ft. above MHHW

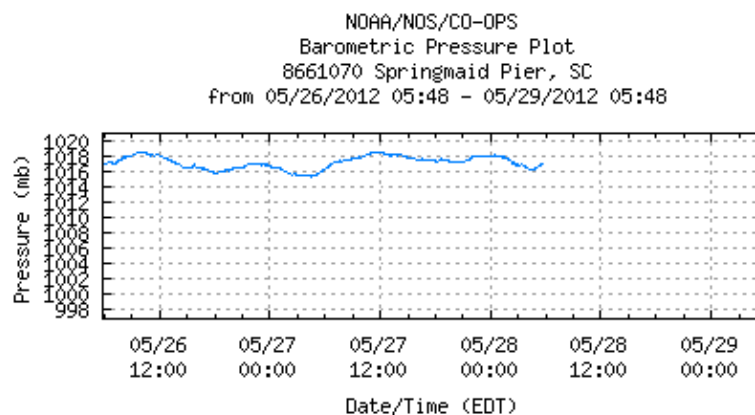
Springmaid Pier, SC - Return to List



Last Observed Sample: 05/28/2012 05:42 (EDT)

Wind Speed: 12 knots **Gusts: 14 knots** **Direction: 91° T**

Springmaid Pier, SC - Return to List

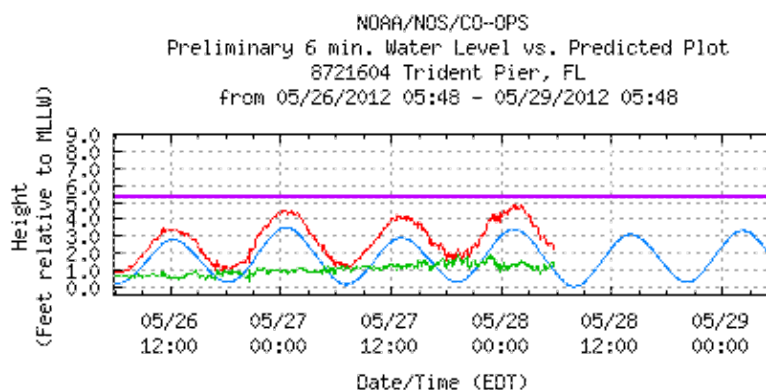


barometric pressure —

Last Observed Sample: 05/28/2012 05:42 (EDT)

Barometric Pressure: 1017.1 mb

Trident Pier, FL - Return to List



Predicted Tide —

(Obs-Pred) —

Observed WL —

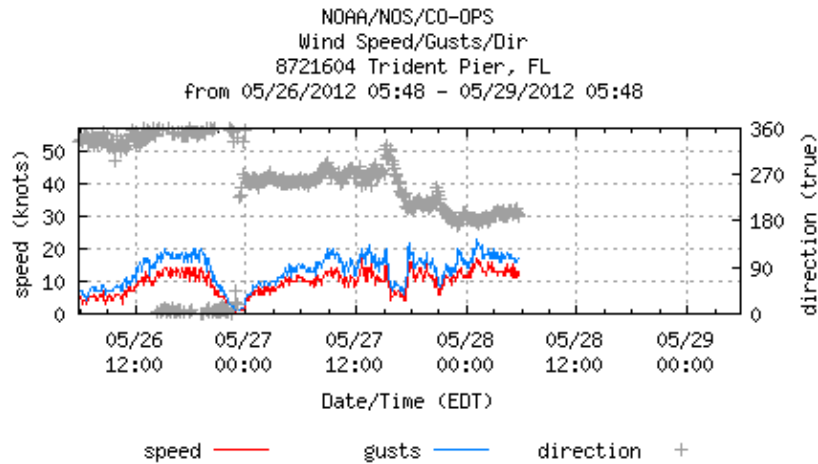
HAT —

Last Observed Sample: 05/28/2012 05:42 (EDT)

Relative to MLLW: **Observed: 2.22 ft.** **Predicted: 0.95 ft.** **Residual: 1.27 ft.**

Historical Maximum Water Level: Sep 26 2004, 4.01 ft. above MHHW

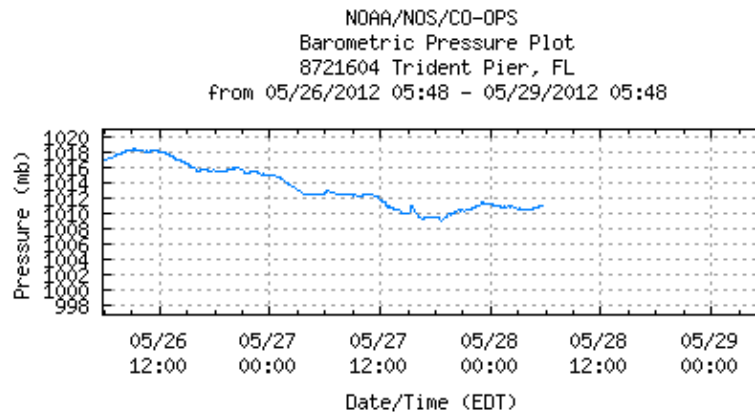
[Trident Pier, FL - Return to List](#)



Last Observed Sample: 05/28/2012 05:42 (EDT)

Wind Speed: 12 knots Gusts: 17 knots Direction: 190° T

[Trident Pier, FL - Return to List](#)



Last Observed Sample: 05/28/2012 05:42 (EDT)

Barometric Pressure: 1011.1 mb

Tropical Storm BERYL QuickLook, POSTED 06:00 EDT 05/28/2012

Center for Operational Oceanographic Products & Services (CO-OPS) | National Ocean Service (NOS)
National Oceanic and Atmospheric Administration | U.S. Department of Commerce